



Australian Government

UEGNSG027 Perform routine maintenance on transmission pipeline facilities and equipment

Release: 1

UEGNSG027 Perform routine maintenance on transmission pipeline facilities and equipment

Modification History

Release 1. This is the first release of this unit of competency in the UEG Gas Industry Training Package.

Application

This unit involves the skills and knowledge required to perform routine maintenance on transmission pipeline facilities and equipment, and complete work and relevant documentation.

It includes using equipment, tools and testing devices, performing routine maintenance and identifying faults.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEGNSG006 Use a portable gas detector to locate escape

UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites

Competency Field

Gas Transmission

Unit Sector

Gas Industry

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for routine maintenance on transmission pipeline facilities and equipment

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Workplace safety, environmental and sustainable energy practices for the site are identified, obtained and understood

- 1.2 Job requirements are obtained and interpreted from plans, specifications and instructions
 - 1.3 Relevant job requirements and workplace procedures for work activities are discussed with relevant person/s, including third parties, to determine and confirm work schedule and respective responsibilities
 - 1.4 Hazards are identified, workplace safety and environmental risks are assessed, and control measures are prioritised, implemented and monitored in accordance with workplace procedures
 - 1.5 Scope of responsibility under the relevant job requirements, including all work permits and/or relevant notifications, is determined and confirmed to access the services and perform work in accordance with job requirements and workplace procedures
 - 1.6 Equipment, tools and personal protective equipment (PPE) needed to carry out work activities are identified, obtained and checked for correct operation and safety in accordance with workplace procedures and manufacturer instructions
 - 1.6 Materials, plans, diagrams, drawings and resources required for work are confirmed and obtained in accordance with workplace procedures
- 2 **Perform routine maintenance on transmission pipeline facilities and equipment**
 - 2.1 Workplace safety and environmental risk control measures, schedule of work and workplace procedures for carrying out work are followed
 - 2.2 Appropriate materials, tools and equipment are selected and used safely in accordance with manufacturer instructions and workplace procedures
 - 2.3 Work is completed within agreed timeframe and to industry standards in accordance with job requirements and workplace procedures
 - 2.4 Hazardous activities are conducted safely in accordance with regulatory requirements and workplace procedures
 - 2.5 Alarms, codes and hazard warnings are correctly recognised, and the correct response strategy is selected and applied in accordance with workplace procedures

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| | 2.6 | Faults and operational conditions of the components are identified, repaired or replaced, and reported in accordance with organisational job requirements |
| | 2.7 | Unplanned events are referred to the relevant person/s for directions in accordance with workplace procedures |
| 3 Complete work and relevant documentation | 3.1 | Workplace safety risk control measures for work completion are followed |
| | 3.2 | Quality and safety checks of the work are conducted in accordance with job requirements, workplace procedures and community and industry standards |
| | 3.3 | Worksite is cleaned, reinstated and made safe in accordance with workplace procedures |
| | 3.4 | Tools, equipment, and any surplus resources/materials are cleaned, checked and securely stored in accordance with workplace procedures |
| | 3.4 | Incidents are reported and followed up as required in accordance with workplace procedures |
| | 3.5 | Relevant person/s is notified of work completion in accordance with workplace procedures |
| | 3.6 | Work completion documentation is completed accurately and provided to relevant person/s in accordance with workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEG Gas Industry Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit supersedes and is equivalent to UEGNSG347 Perform routine maintenance on

transmission pipeline facilities and equipment and supersedes UEGNSG352 Check and report on gas station conditions.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6a6c032e-ffcb-4f3d-8063-415efbd261e8>

Assessment Requirements for UEGNSG027 Perform routine maintenance on transmission pipeline facilities and equipment

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying problem-solving techniques
- applying relevant workplace safety requirements, including:
 - working safely with hazardous materials and equipment
 - identifying and reporting hazards
 - implementing risk control measures
 - selecting and using correct personal protective equipment (PPE)
- applying relevant industry standards, guidelines, codes of practice and regulations
- applying sustainable energy and environmental principles and practices
- communicating effectively with stakeholders
- completing work and relevant documentation
- conducting quality checks
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- following work schedule, safety plan and job requirements
- following workplace procedures
- interpreting technical drawings, plans and materials lists
- isolating, depressurising, tagging and locking out facilities/equipment
- obtaining relevant resources, tools, equipment and materials to conduct the work
- obtaining relevant work permits
- operating gas detector
- performing routine maintenance on transmission pipeline facilities and equipment
- positioning signs, barriers and warning devices
- preparing and planning for routine maintenance on transmission pipeline facilities and equipment
- rehabilitating and maintaining a clean worksite
- reporting anomalies
- restoring all site isolations
- identifying the required updates to plans and drawings.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- appropriately licensed persons
- communication and recording/reporting documentation requirements and procedures
- de-isolation all sources of energy, removal of tags and locks and return to normal operation requirements and procedures
- faults managed during routine maintenance
- gas industry products, processes and characteristics
- hazardous activities, including lifting, climbing, working in confined spaces and aloft, and use of power tools
- isolation, depressurisation, tagging and lock-out of pipeline facilities and equipment requirements and procedures
- quality checks
- relevant industry standards, guidelines, codes of practice and regulations
- relevant tools, equipment and calibrated instruments
- remote monitoring systems operations such as supervisory control and data acquisition (SCADA) and how the station operations may affect, impact and interact
- manufacturer specifications, manuals, part lists, calibration forms and checklists
- relevant industry standards, guidelines, codes of practice and regulations
- relevant workplace safety requirements, including:
 - legislated work health and safety (WHS)/occupational health and safety (OHS) requirements
 - legislated industry/technical specific requirements
 - workplace safety procedures
 - manufacturer requirements
- relevant work permits
- relevant workplace documentation
- relevant workplace policies and procedures
- site preparation, safety plans, job requirements and work schedules
- positioning of signs, barriers, and warning devices.
- types of pipelines, facilities and equipment to be inspected and tested.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and PPE currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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